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The Students of Worcester Polytechnic Institute

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# Competency exams examined

by Amy Somers

The Competency Exam results are now officially out, complete with some startling trends, the most eye-catching of which occurs in the Chemical Engineering Department. Here the results show that eighteen out of a total of thirty-two students taking the exam failed. This is roughly equal to a sixty-five percent failure rate, a phenomenal jump from twenty-five percent in January of 1976 and 1977. Seeking an explanation, *Newspeak* went to Professor Zwiebel, Head of the Chemical Engineering Dept., to learn more about their competency exam procedure and to discover possible reasons for the lowered scores.

Chemical Engineering students may pick up the exam at 4:30 on the Friday preceding the scheduled exam week; this gives students more time to carefully read the exam for comprehension, to contemplate the problem, and to formulate

some ideas of how they will proceed when the exam officially starts on Monday. Although each student receives the same problem, the design of a chemical plant, the exam becomes totally individualized in that he—she may approach it in any of a number of ways — as many different methods as there are students. On Monday morning, students meet with the Competency Exam Committee to ask any questions they can think of about the exam and to help fix in their minds the procedure they will use to complete the task.

The quality and type of exam has remained unchanged from year to year. To attain this end, the Comp. Exam Committee presents the proposed exam to the entire Chem. Engineering Dept. faculty for critical evaluation, thus insuring uniformity and consistency between past and present exams, and maintaining the same high quality of the exams.

What then are the possible causes of the

sharp increase in failures? Dr. Zwiebel believes that it was simply an individual student problem, that the competency exam candidates did not demonstrate the ability to tie together the various elements of chemistry in solving the problem. Furthermore, he feels that students did not take the initiative of making thorough enough preparation for the exam, especially studying from past exams.

A contributing factor may have been the very nature of the Chem. Engineering Comp. Exam as compared to those of other departments. The Chem. Engineering Comp. is long — it takes one full week to complete; and Dr. Zwiebel feels that it more strenuous and time-consuming than others. Also, Dean Grogan, Dean of Undergraduate Studies, has become very concerned about the fact that students are permitted to pick up the exam such a long period in advance. He maintains that the great importance and strain inherent in the

completion of the competency exam can create a highly emotional state in some students, causing them to build up anxieties and mental blocks if they are allowed to dwell on the exam for a whole weekend prior to starting work on it. He says that the Friday distribution is "Wrong and in violation of common sense." Giving the exam out the night before it begins (Sunday night), seems to work out the best, he feels.

In view of the current low exam results, the Chemical Engineering Dept. hopes to provide more formal preparatory activities for students taking the Comp. Exam. A design course, which helps to bring the different facets of Chemistry together for the student, may soon be additionally offered in the spring as well as during B Term.

The January 1978 Competency Exam results are listed on page 8.

## Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 6, Number 4

Tuesday, February 21, 1978

To \$4000

### Tuition hike announced

The W.P.I. Board of Trustees met Saturday morning February 18, and voted to approve a \$300 raise in tuition for the 1978-1979 school year.

According to President George Hazzard, one major reason for the hike is to maintain faculty salaries at a level competitive to other institutions. Also, in light of the record capacity enrollment of students this year, more funds will be needed to enable the college to hire more faculty in order to preserve a desirable student-faculty ratio.

The \$300 figure was determined by consideration of projected funding for next year — tuition, gifts, endowments, etc. vs. anticipated expenditures. The present tuition figure would produce a deficit, which is something the trustees simply could not allow, said Hazzard, and thus the tuition increase was necessary as the only means of balancing the budget. In spite of the hike, financial aid considerations will also be increased commensurably.

On other matters, the trustees approved the executive board proposal to continue the football program at W.P.I. Football will continue, however it was decided that future coaches should be hired with a contract instead of on a tenure basis. This would ensure that if the coach did not

perform satisfactorily he could be removed and replaced.

Looking toward the future, the trustees appointed a committee headed by Milton P. Higgins, chairman of the present trustee board, to look at goals for the college in the 1980's, as W.P.I.'s Plan enters its second decade.

During the second day of his visit on campus, Dr. Edmund Cranch, newly elected President of W.P.I., also met with the trustees. Cranch gave a brief "acceptance speech," commenting on his impressions of the school and lauding the commitment W.P.I. has shown toward undergraduate education.

Dr. Cranch will be assuming his position this summer on July 1st, as President Hazzard steps down from a post he has held since 1969.

Interviewed following the board meeting, President Hazzard stated that he will remain in the Worcester area following his retirement, and will stay closely allied with the school. Hazzard will also be taking on part time duties administering a grant program funded by the Ford Foundation, making awards to college faculty who distinguish themselves in liberal approaches to innovative learning.

Plan can be refined

### Cranch holds press conference

by Ken Mandile

Dr. Edmund T. Cranch, the President-elect of WPI, held a press conference last Friday in the Green Room of Alden Hall. The conference was attended by Cranch, Mrs. Cranch, WPI Director of Publications Roger Perry, the Worcester Telegram, Channel 27, and Rory O'Connor and Tom Polito for *Newspeak*.

Cranch answered questions dealing with his impressions of Worcester, his philosophy of higher education, his plans for changes at WPI, and faculty overload.

The new WPI President, who will be coming from a position as Dean of Engineering at Cornell University, said he doesn't have any "well formulated ideas" for changes at Tech. He said he thinks "that there are things within the Plan that could be refined; some attractive features that might be added." Cranch believes that "as the Plan matures there are some very interesting sideways dimensions that could be added to enrich the Plan."

Upon his arrival at WPI this June, Cranch has two major priorities. One priority, he said, would be to "get closer to the Plan, to the operation of the Plan and to the curriculum so that I can see just what it is that the students are experiencing at WPI."

Another priority, Cranch said, will be to

"get to know the faculty on a wider basis, because so far I just haven't had the opportunity."

A question was asked dealing with faculty overload at WPI and Cranch's plan of attack on the problem. Cranch said he would "have to find out the degree of the overload, whether it is isolated in the sense of certain areas or whether it's a uniform phenomena." Cranch continued, saying, "I don't have a good sense at the minute whether it's the latter or the former."

Cranch was asked about WPI's cultural position in the city of Worcester. He "would have to look at the Consortium as an untapped source," he stated.

In 1972 Cranch headed a committee at Cornell which recommended an enrollment ceiling of 17,500 students, 2,000 more students than were presently enrolled at the school. Cranch was widely criticized at the time for the report. He was asked at the press conference to comment on the report. He was asked at the press conference to comment on the report. He said "one has to understand the environment in which that study was made." It was written in an environment in which the University had grown since the 1950's with a uniform

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Assignment: Cover Carter

—Mark B. Hecker

### The Presidential beat

by Tom Daniels

Every once and a while, the people at *Newspeak* stop and daydream for a time about what it would be like to be a professional reporter. Last Friday, Mark Hecker and I stopped our dreaming, picked up our cameras and notepads, and headed for Cranston, Rhode Island, to become members of the working press for a day.

I first heard that President Carter would be in our general area three weeks ago, when Ken Mandile showed me a one inch or so clipping from the Boston Globe. It said that the President had announced a short trip to New England, where he would hold one of his "town meetings" in Nashua, New Hampshire on February 18. We had just finished talking about possible feature stories for the coming term, so it seemed natural when Ken said something like, "Why don't we try to see Carter?"

To tell you the truth, I could think of a lot of reasons why we wouldn't get to see Carter. In the first place, none of us knew where to begin in the long road to getting White House press credentials. Taking the bull by the horns, though, Tom Polito of our staff picked up the office phone, dialed a few numbers, and asked if he could talk to the President. He was informed that Mr. Carter was in conference, and that his office would be open the next morning, if we would like to call back.

Early the next day, Tom called the White House, and asked to talk to the Press office. The young lady he spoke with told him

that he would have to go through the State House in New Hampshire, as they were handling preparations for the trip. The State House, however, had other ideas; they told Ken that we should contact Senator Durkin's office. The Honorable Senator's secretary was most obliging; she promised to call back as soon as she could check out the procedure to follow. When we hadn't heard from her by the following afternoon, Ken decided to jog her memory a little. Another girl answered the phone, and suggested to Ken that he try Senator McIntyre. Undaunted, our noble news editor dialed again, and again spoke with a congenial woman who again promised to call back. Much to our surprise, she did call back, and, in doing so, provided us with a faint ray of hope: The number of the official White House Advance Press Office for the President's Nashua trip!

Of course, we were a little bit deflated when, after calling the number, the person on the other end of the line answered with a cheery, "Good morning! Holliday Inn!", but we just wrote away this seemingly dead end with the thought that this was just another in a long series of Administration moves to hold the line on Federal spending. At last, though, we were put in touch with the people in charge. The gentleman of the Press office took our names, Social Security numbers, addresses, birthplaces, birthdates, sex, race, and what we had had for breakfast, and told us that we could

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# Editorials: Court burdening

Last week a W.P.I. student was assaulted by a young woman with a metal shovel. At least that is how the Worcester Police records will read. He had taken her parking space which she had shoveled out after the last blizzard. She had left a note on his car telling him that that was her space. On his return she asked him if he had read her note. He gave her a smart answer which caused the irate woman to give him a crack on the back with the shovel she was using to clear her walk. He went back to his apartment, called the police, and went to the courthouse the next day to file a complaint.

The man was within his rights, of course. The street is public property regardless of who shovels it. Morally the woman had a point. She had worked hard to uncover that small bit of pavement for herself.

What was senseless was the result. Although he was not injured the man filed a court suit against the woman. He stuck up for his rights by calling for the law. In an earlier time the incident would have been

passed off as something unpleasant that should be forgotten.

In this age of civil rights and burgeoning bureaucracy the popular method to solve any problem is through the courts. The courts are overburdened. Too many people are using the law as a solution when other methods would work as well or better. The accident suit against Stratton ski area, the skyrocketing rate of malpractice suits, rising insurance costs and an average wait of a month for a "speedy" trial are all symptomatic of this trend. People today are very quick to defend their rights without looking at the whole situation. It is analogous to a man stepping in front of a truck just because the law in this state says all vehicles must yield to a pedestrian.

The law is not a panacea. The courts cannot solve everybody's problems. When people learn this maybe our judicial system will be able to function as it was intended.

Craig S. Vickery  
DCP

# Catch 22

Did you ever read Catch-22? Catch-22 goes something like this: if you want to get out of the war you have to prove you are insane, but if you request to be discharged because you are insane you must be sane, because it is sane to want to get out of the war.

A similar situation had arisen in the sports department. When I took over as sports editor last fall I had two goals: to provide coverage of all the major sports, particularly those that were winning, and to maintain a high standard of writing.

Not long after I set these goals I realized that I would not be able to find enough writers to cover all the sports I wanted covered. Still determined to provide good coverage of the sporting events and activities at WPI I decided to fill in the gap by covering the events that were not being covered by my meager staff.

This line of attack soon proved unsatisfactory because my writing, which was hurried because I was doing more writing than I had time for, was suffering in regard to its quality. The problem was brought to a head when a member of the swimming team said to me, "Barry, next time you put in swimming results write something to go with them. There were three school records broken and you didn't even mention that."

When I got the results I was only told of one school record that was broken and I had made a note of that one, but the note was inadvertently left out when the results were typeset.

If I try to cover the sports that are not covered by someone else my writing is poor and the coverage is unsatisfactory. If I write as much as I can many sports that should be covered are not. Both situations were unsatisfactory to me. I began to think seriously of resigning.

I did decide to cover only what I have time for and to first cover the teams that are winning. I will continue to try to enlarge the sports staff, but am somewhat pessimistic in this regard.

If there are any teams that are not being covered and would like coverage they will have to submit an article or results themselves. Deadline is Saturday at noon, or Sunday at noon if the article is typed and counted. If anyone wishes to write sports, the writer's meetings are at 11:00 on Tuesdays.

Barry Aronson  
TAD  
DCP  
MBH

# Editorial policy

Due to several recent incidents, we feel that a clarification of the editorial policy is in order.

First and foremost: We welcome all contributions from the WPI community. All stories should be submitted to the editor before the Saturday noon. We reserve the right to edit all copy, without changing the writer's intent. Any stories which express the writer's opinion will be run as either letters, or the Op-Ed page. At no time will we accept for publication anonymous material.

It is the intent of this newspaper to present news that is of importance to the people of WPI. To do this, we must act in a manner befitting professional journalists, and strive to publish only accurate information. We also must use the rights granted to us of freedom of the press, and the right to protect our sources.

Editorials represent the opinion of the person whose name appears at the bottom. If, instead of a name, the term "The Editors" appears, then at least two-thirds of those editors present during makeup on Sunday agreed with the opinions expressed above.

Letters to the Editor will not, at any time, be edited. No letters which, in the opinion of the editors, are libelous, will be printed. The intent of the Letters column is to foster a meaningful dialogue and exchange of ideas.

The Editors

# Letters:

To the Editor:

This letter is only an indirect response to the front page article on football in last week's paper. My question is what image does WPI really want to project?

The reason for my confusion is the plight of the WPI programming team. Two WPI programming teams competed in the Northeast Regionals, in New York, placing second and fourth out of field of nine. The first place team was MIT by 30 points out of 700.

The team members Jim Cook, Mike Decoteau, Fred Fisher, Mike Kenniston, Geoff Matter, Ed Menard and Steve Wolfe paid out of their own pockets to attend the Northeast Regional competition. This was a small sum and I'm not saying WPI should have paid their expenses when they went to represent WPI to the northeast section of the country.

The problem is this, our "A" team, consisting of Jim Cook, Mike Kenniston, Ed Menard and Eric Northrop, by coming in second in the regionals, qualified for the nationals. The nationals are in Detroit. Now do you see the problem? Participation in this competition is expected to cost the incredible amount of \$400.

Naturally, air travel was financially out of the question, unfortunately so was the bus and train. The team members will take turns driving and sleeping for the 15-20 hour trip. The team members will not be staying at the convention hotel, (the competition is part of the National ACM convention) because the \$50 a night was too much to pay for a single room with three beds and a cot.

My distress is not at the fact that the WPI team will not be in the tip top physical condition to compete against MIT and 22 other U.S. teams. After all a six hour

programming contest is not a physically strenuous activity. My distress is rather that the same school that brings you the "X" dollars a year football team and the unfunded national bowling champs of a few years ago has done it again, WPI had no money for the team that will represent it in a national competition!

I am not putting down the football team in any respect. I think it is an important part of the WPI image. I simply think that some other things might be important as well.

What is the team doing for money, you ask? Well naturally the Computer Science department had no money to give, this event was certainly not planned for in last year's budget. The Computer Science staff, on the other hand, reached into their own pockets and came up with \$100! The National ACM, which is sponsoring the competition donated \$120. The three computer related societies on campus, the ACM, DPMA and UPE are expected to donate from their most meager treasuries. As a last resort there are signs up asking for student donations. Many of us signed a petition saying we wanted football, it was easy, it was free! Are we willing to drop 25 cents in the can in the department of Computer Science? The rest of the funds will come from the participants.

I will close by stating by quandry once more. What sort of image does WPI really want to project? Should the image be a winning football team procured by giving the football student a 10% advantage over the average student in the financial aid game? Or would the WPI community prefer a football team simply improved to the competitive level and allocating those extras \$400's to pay for things like sending a team to represent WPI in the national programming competition?

Annemarie Bernard

# Diversification need

To the Editor:

Recent conversations with industrial recruiters have revealed that they have been extremely impressed by the seniors they have met who are completing their education under the WPI Plan. Veteran interviewers who have been to many colleges over the years have said this year that they have yet to meet a more mature, articulate and well-organized group of engineering and science students. There is no question but that the Plan develops confidence and an ability to pull ideas together. A challenging IQP and MQP experience is obviously considered a very great asset.

Since this is the period when next year's programs are being planned, it is important to know that the otherwise high enthusiasm of the recruiters is tinged with an element of concern about the tendency of a growing number of students to limit their science and engineering course exposure beyond the basic "1000-level" MA-PH-CH-CS work to those courses given strictly by their own departments. Since professional work is not limited to academic departmental boundaries, students who fail to become at all acquainted with allied science or engineering fields are limiting their own future opportunities. A study of our registration data indicates the concern of the recruiters is well-founded. Here are some gaps that appear:

CE majors with no EE and often nothing at all outside of CE beyond the 1000 level (considering the energy problems of the future, knowledge of the fundamentals of such topics as heat transfer, for example, would open new areas of opportunity);

CM majors with no EE and little mechanics; CS majors with virtually nothing at all outside of CS;

EE majors with no stress analysis, dynamics or thermo;

ME majors with no EE or controls.

Management-oriented majors who do not follow an engineering area far enough to understand the trade-off decisions required in the design process are missing an important opportunity at WPI. All engineering majors should consider acquiring some understanding of economics.

It is certainly necessary to maintain strength in the area of major concern, but the tendency to avoid learning anything at all in related fields because the material is presented in another department can produce a premature narrow overspecialization which can later hinder placement and career mobility. I therefore urge all students in the planning process to review their programs and provide for some breadth of experience outside their own departmental offerings.

William R. Grogan  
Dean of Undergraduate Studies

## Newspeak

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# SAB minutes

The meeting was called to order at 7:05 p.m. by Tina Tuttle. Attendance was taken.

The following announcements were made:

Notices of meetings are being sent to the officer's personal mailbox and not the club's mailbox. If anyone is not receiving notification or if the wrong person is receiving it, leave the correct names and mailbox numbers with the President or Secretary.

The new van will be arriving at the beginning of March. A volunteer is needed to assume responsibility for the maintenance of the van i.e. (check the tires, oil, etc.). The old van will still be in use until June at which time the S.A.B. will decide what to do with it.

A list of participating members of competitive clubs with designation of who will receive letters should be left with Dean Brown. Also the number of games and the win-loss record should accompany the list of members. These listings are for the club banquet. Anyone with questions as to last year's letters should see Dean Brown.

Two reminders: Budgets will be due in April. Mileage for the van is totalled at the end of the year. Leave enough money in your account to cover it.

A meeting was held that afternoon with club sport representatives and Student Affairs to discuss the clubs' possible inception into the Athletic Department. Any input would be appreciated. Also, if each club would leave count of their active members, it would be helpful in any such plans.

Any club representatives that enter a meeting after attendance has been taken should see the secretary upon arrival so that a true account of members present may be kept for voting purposes.

The amendments which were voted upon at the last meeting were declared void because proper procedure was not followed during the voting. The amendments were re-proposed and passed out in writing. They were discussed and changes made. They will be voted upon at a special SAB meeting.

The following amendments were proposed:

I. D. A quorum shall be constituted by fifty-one percent (51%) of the voting members of the S.A.B.

II. H. All unexpended money as of June 30 will be deposited into the Student Activity Reserve Fund. Any bills dated after June 15 will be deducted from the following fiscal year's monies. The Office of Student Affairs Representative must receive notice of any expenditures between May 15 and June 15, prior to June 15.

Delete III. B. (If approved by the S.A.B. the request for funds will be brought before the Student Government of the Institute.)

IV. B. 2. All original invoices and receipts must accompany the withdrawal slips.

V. C. A club will lose voting privileges and be fined five percent (5%) of their S.A.B. grant when it fails to be represented at two (2) consecutive S.A.B. meetings. These monies shall be deposited in the Student Activity Reserve Fund. Voting privileges will be restored upon representation at two (2) consecutive S.A.B. meetings.

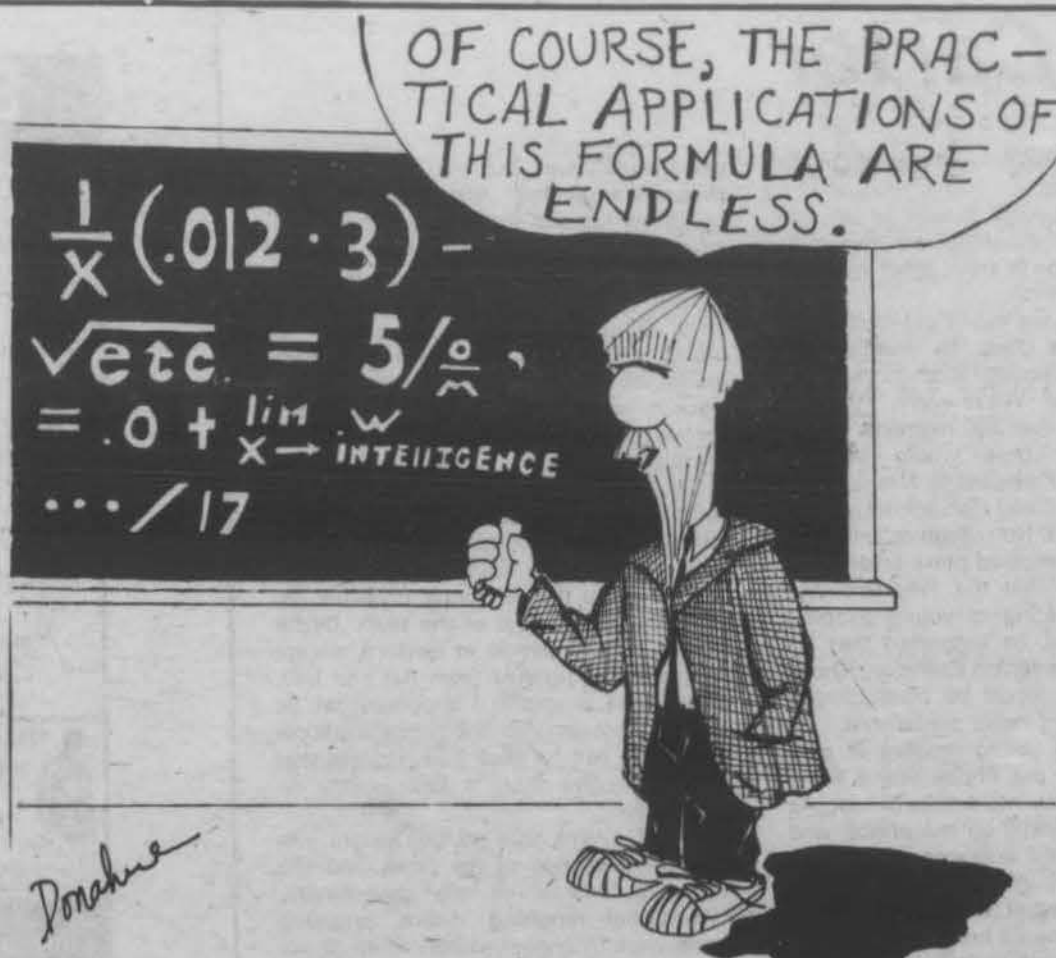
V. D. A club seeking admission must receive approval of a majority of the voting members of the S.A.B.

V. E. The club will be eligible to receive funds twelve (12) months following the date of its acceptance.

Delete VII. C. (The S.A.B. will then refer the organization in question to the Student Government for examination. The Student Government will vote on the expulsion according to its own by-laws.

The Cycling Club and Men's Volleyball sought admission to the S.A.B. A vote was taken. Both clubs were admitted.

The meeting was adjourned at 8:30 p.m. Respectfully submitted,  
Eugenia Fernandez



## Cranch

[Continued from Page 1]

rate of growth with no committee or central administrator ever talking about the natural size, the size to which the institution should aspire." He said his committee addressed the question. The questions being asked were "should the institution become a 20,000 student institution or 25 or 35,000 students." Cranch said that at the time Cornell could picture itself competing with the Big 10 schools. "Our committee said 'no', Cornell should reach a certain level and then stop growth at that level," he said. Cranch continued, saying, "the real purpose of that particular recommendation was to call the attention of the community to the size of the institution and to realize that if you force growth continuously you pay a heavy price."

When asked about raising alumni support of WPI, Cranch credited President George Hazzard for doing a good job with the alumni. "A very fine basis has been laid," he said.

## Modern dance

A new club activity in modern dance, open to both men and women, will begin this semester. It is a complete beginner's course, and a very relaxing form of exercise. Faculty and administration are also welcome to participate. The instructor, Joyce Rosen, also teaches at Clark University and Holy Cross College.

Modern dance has often been confused with ballroom or jazz dance, but it is much like theater in that it is an improvisation art; its technique sprang up from pure movement — improvisation, and its choreographers continue the search for individualized, soul-motivated dances.

Because of the recent storm, the first "C" Term class will be held Tuesday, February 21 at 8:00 p.m. in Alden Hall. Classes will be weekly and PE1000 credit is available. Everyone is welcome to attend.

## ATTENTION FRESHMEN

There will be a short organizational meeting Thursday, February 23, in the Wedge at 6:30 p.m. to discuss upcoming class events, parties, and activities. All those interested please attend.

## SFPE — Planning Day Activities

The WPI Student Chapter of the Society of Fire Protection Engineers will be presenting Mr. Dave Demers on Tuesday, Feb. 21, at 7:30 p.m. in Kaven Hall 116. Mr. Demers, a 1975 WPI graduate, will be discussing academic planning for persons having any degree of interest in fire protection engineering. Since fire protection is an interdisciplinary field, all interested persons of any major are invited to attend.

On Wednesday, Feb. 22, upper classmen presently involved in fire protection will be available to discuss possibilities for projects in fire protection and also to answer any further questions. They will be located in Kaven Hall 207A until 4:00 p.m.

Cranch was asked to state his philosophy of higher education. "The purpose of higher education is to take each succeeding generation of young people and expose them to an education that not only deepens their expertise in a specialized area..., but also stretches them personally and culturally, and lastly equips them for public service in the nation and the world," Cranch said.

Mrs. Cranch was also questioned at the press conference. She said "It's going to be a whole new life for us." "But we have been long enough in one place." "It's so easy just to stay," continued Mrs. Cranch, "It's hard to gather up all the pieces and go." Mrs. Cranch sees no need for special programs for women in engineering. "It has already arrived," she said. "It is no longer necessary to advise them, they have found themselves."



President-elect Edmund T. Cranch

## Davis new math head

Dr. Paul W. Davis of 5 Warren St., Boylston, has been appointed head of the Worcester Polytechnic Institute Mathematics Department effective July 1, according to Vice President Ray E. Bolz, dean of faculty.

Davis is a graduate of Rensselaer Polytechnic Institute and received his master of science and Ph.D. degrees also from RPI and has been on the WPI faculty since 1970.

He will succeed Dr. Joseph J. Malone Jr.

of 45 Adams St., Westboro, as head of the math department.

Malone will continue his teaching and research at WPI as professor of mathematics. He came to WPI in 1971 from Texas A & M University as professor of math and head of the department. He is a graduate of St. Louis University, where he received both his master of science and Ph.D. degrees.

He has taught mathematics at Rockhurst College, University of Missouri at Rolla, and the University of Houston.

## No nuke night planned

Central Mass. Citizens Against Nuclear Power, the Worcester county affiliate of the Clamshell Alliance, announced plans today for a "No-Nuke" Night on the Town. The gala event, to take place on Friday, March 3rd at 8 p.m., will be held at the Unitarian Universalist Church, 90 Holden St. in Worcester.

Phil Stone, a spokesperson for the group, said, "The program will consist of

European films on the nuclear issue, guest speakers, music, and refreshments. It's another good opportunity for people to get more information on nuclear power."

Featured speaker Guy Chichester, a founding member of both the Seacoast Anti-Pollution League of New Hampshire and the Clamshell Alliance, will conclude his presentation with a question and answer session.

Interested in sailboats, sailing, Radio Control, hull design, or working with fiberglass? If you say yes to any of the above, you may be interested in a project for term A of next year. I would like to design and build a radio-controlled sailboat in hopes of improving an established class in the American Model Yachting Association or designing a new O.D. class of boat. If your interests lie along any of these lines, please contact Gretchen Chipperini in Stoddard B301, or drop a note in Box No. 2112. A model yacht exhibit will be on display for Project Planning Day.



# Carter

[Continued from Page 1]

have one, and possibly two reporters inside the town meeting.

Our elation quickly turned to an uncertain feeling that combined awe with fear. We had done it; now, what were we going to do with it?

Unfortunately, we didn't get much of a chance to make plans for Nashua. On Wednesday, we received a return call from the White House. We're sorry, the gentleman said, but over 200 members of the national press corps would be accompanying the President to Nashua, and this would fill the small high school gym to the breaking point. No college or university papers would be allowed press credentials, despite the fact that the President was devoting the meeting to young people's questions. Instead, he suggested that we try to see the President in Cranston, Rhode Island, where he would be conducting a nationally televised news conference.

We started the calling process all over again, first trying the Rhode Island State House. Here, we ran into a piece of luck. As Rory O'Connor picked up the phone, and asked us to find the area code for Rhode Island, Mark DiLuglio, our astute Ad Manager, asked what we needed at the State House, saying, "I know some people down there." "Some people down there" turned out to be two relatives, who gave us some help with the red tape. As we soon discovered, there were still some press credentials left for the news conference, and with help to guide us through official channels, Mark Hecker and I were on our way.

Our first stop was the Cranston Hilton Hotel, Room 429, the White House Press Center. We had no problems, until our names turned up missing on the master list. The woman at the desk turned us over to a tall, well dressed young man, with a slight Souther accent, who was wearing a small gold lapel pin. Adding to this the fact that there were voices coming out of his wrist, I deduced that we had fallen into the hands of the Secret Service. Resisting the urge to swallow my notes, I explained our situation, and asked if we might not be on another list. Picking up a thick book from the bed, he thumbed through to the "Ds", and asked to see some identification. After scrutinizing my press card for a few seconds, he replied, "Yes, sir, everything is in order. Please excuse the inconvenience."

We were in business. Sporting our new "PRESS - VISIT OF THE PRESIDENT" badges on our coats, we set out in search of Green State Airport, where, the press advisory told us, Air Force One would touchdown at exactly 1:50 PM EST. We felt right at home driving through the streets of Cranston, for the potholes are second in size to only Worcester's. We entered the Air National Guard building at 12:30, among the first to arrive. Setting up our equipment on a flatbed truck parked on the apron, we noticed dozens of Secret Service agents milling about us.

If there was one thing that struck me as funny about the whole day, it was the name "Secret Service." They are, in fact, anything BUT secret. Everywhere we went, we'd see them, in various stages of paranoia, but obviously in total command of the situation. We were inspected at every stop, but always politely, and always thoroughly. Lenses were taken off cameras, video tapes taken out of cases, and tape recorders checked for hidden compartments. At the airport, a roughish-looking guy in a trenchcoat took my picture several times; an ABC cameraman explained that the Secret Service wanted a record of every person that was in direct line of sight. Sharpshooters lined the roof behind us, and an Army helicopter flew back and forth, constantly searching.

Shortly before the President was scheduled to arrive, a 707 landed with members of the national press contingent on board. An endless stream of reporters and cameramen streamed down the boarding ramp, rushing for an advantageous spot. Due to our early arrival, we had the best location, wedged in between TV 10 from Providence, and the crew from ABC News.

When Air Force One landed, it was as if a giant switch had thrown the professionals into high gear. Motor drives filled the air with squeals; cameramen filled my ears with expletives about an extra boarding ramp blocking their shots of the President "playing the crowd."

Later, at the hotel, we prepared for the press conference. Although we were skeptical at best, we were going to try to

get a question in: Did the Administration support legislation that proposed tax breaks for families putting children through college, and, if not, did they have any programs of their own? Other reporters around the temporary press center were busy, filing stories over the phone, or typing madly away to meet deadlines. Inside the ballroom, NBC crews had the place feeling like a day in the tropics. Again, we had a fair camera location, 35 feet to the President's left.

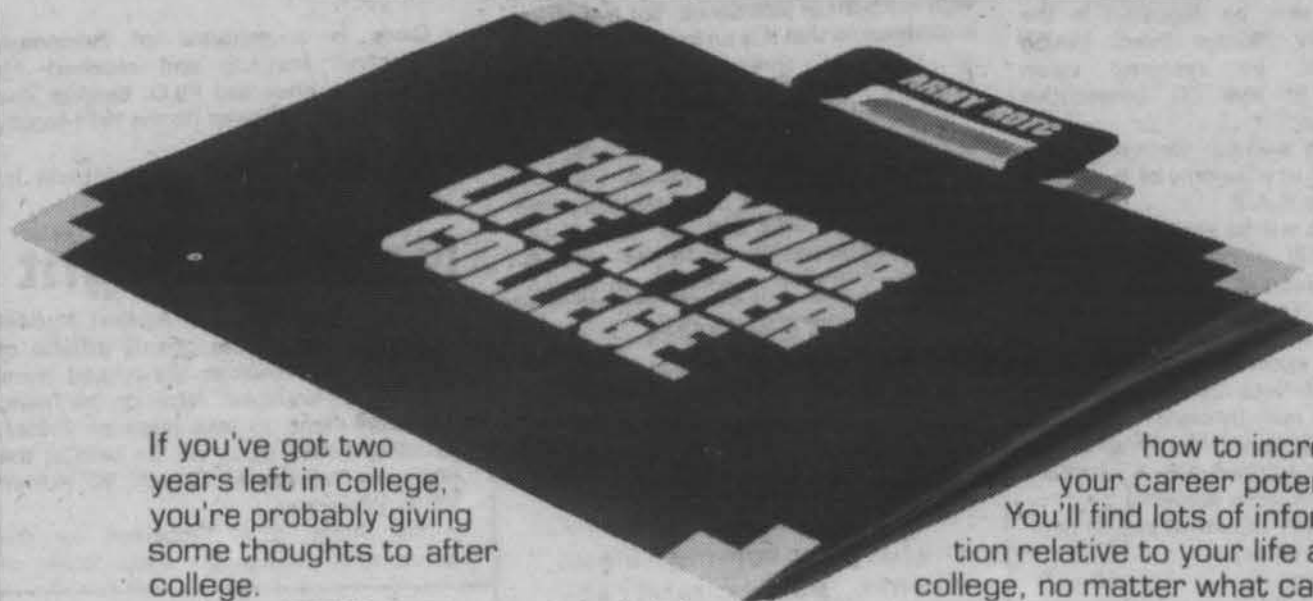
Much has been said of the ensuing press conference in the local and regional media. For sure, local reporters got strictly the leftovers. The wire services and networks asked most of the questions, probably because they filled most of the seats. Carter seemed to pick people at random, except for the first questions from AP and UPI, which were arranged. I suppose that he realized, though, that the national people depend on him for their jobs. I guess that he had to give them a first priority on questions.

Overall, I think that we got insight into both the workings of the press, and the Executive branch of the government. Professional reporting means pressure; there weren't many smiles when those

[Continued to Page 5]

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## ... Carter

[Continued from Page 4]

people got off the press plane. They are harried people, always having to deliver good quality material that they can't control to a great degree, on tight deadlines. In the same respect, Carter himself was hounded by an endless stream of people; he had about five minutes to himself the entire time we were covering him, and that was to change suits for TV.

Carter left as he had come, exactly on time, with the press in hot pursuit. Although he had made several significant revelations about the Middle East, the coal miner's strike, and tax reform, it was an average press day, in the national's books. The news conference could have been held in Washington for all it mattered; Rhode

Island was chosen because Carter was doing a favor for Senator Claiborne Pell, who is seeking re-election this fall. Roughly the same people would have attended, asking the same questions. It's like the ABC cameraman told me at the airport, while we were waiting for something to happen. He had gone into his office to check his vacation time, and had seen his name towards the top of the seniority list. To him, everything had become routine, a matter of getting on the plane, getting off, and setting up his camera at another location. It's probably the same way with Carter and other federal officials, too. Details become blurred together, and only the larger issues remain distinct.



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PEACE CORPS and VISTA recruiters will be conducting interviews with graduating seniors on Wednesday, March 1 in the placement office.

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Seniors and grad students should sign up for interviews in the Placement Office.

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If you're a junior or a senior majoring in math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as \$650 a month right through your senior year. Then after 16 weeks of Officer Candidate School, you'll receive an additional year of advanced technical education. This would cost you thousands in a civilian school, but in the Navy, we pay you. And at the end of the year of training, you'll receive a \$3,000 cash bonus.

It isn't easy. There are fewer than 400 openings and only one of every six applicants will be selected. But if you make it, you'll have qualified for an elite engineering training program. With unequalled hands-on responsibility, a \$24,000 salary in four years, and gilt-edged qualifications for jobs in private industry should you decide to leave the Navy later. (But we don't think you'll want to.)

Ask your placement officer to set up an interview with a Navy representative when he visits the campus on March 13, 14, or contact your Navy representative at 518-472-4424/4462 (collect). If you prefer, send your résumé to the Navy Nuclear Officer Program, Code 312-B468, 4015 Wilson Blvd., Arlington, Va. 22203, and a Navy representative will contact you directly. The NUPOC-Collegiate Program. It can do more than help you finish college: it can lead to an exciting career opportunity.

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# Student academic planning and

8:30-9:45 a.m. at Alden

## What does WPI offer?

Underclassmen and new students will want to hear William R. Grogan, Dean of Undergraduate Studies, discuss the broad range of learning opportunities that are available at WPI. Many students fail to realize that decisions made as early as the freshman and sophomore years, have far-reaching impacts in later years. Uninformed program planning can eliminate a whole range of academic activities that are discovered too late.

London — Zurich — Washington, D.C. — WPI's Project Centers — Special Programs — How to plan your program so that you have a very good chance of being selected for these and many other opportunities is discussed.

Dean Grogan will also show how the four degree requirements can be used as bases on which to design an entire academic program.

In short, learn how you can get the most out of your program at WPI.

## M.Q.P. Opportunities

Students planning to do MQP's or related PQP's next year should get information on possible projects from their individual departments. Departments will hold informational meetings on these

projects between 8:30 and 9:45 a.m. Details on specific project presentations, and room assignments for individual project advisors are posted at the department offices of each academic department.

## Careers and majors

From 10 to 11 a.m. and again from 11 to noon, departments will offer brief introductions to career possibilities in their fields and answer questions on how to plan on course offerings, disciplinary specialties and integration of course and project work in constructing programs. Appropriate for freshmen choosing a major, students considering changing majors or students, interested in special

programs. Prof. Demetry will be available in the IQP Center from 10 until noon to talk with students regarding interdisciplinary programs (Planning, Environmental Studies). Students should check with the respective department offices for information on where departments will hold these sessions. Pre-Med advising will take place from 10 to noon in Salisbury 329.

## WPI project centers

Project Centers are extensions of the WPI campus, at which students address projects with the cooperation of professionals. All project topics are selected for their educational merit as well as their potential for making a significant contribution to the solution of a real-world problem. The organizations which WPI has

designated as Project Centers have built up years of experience in working with project students. The faculty members who act as Project Center Directors will be available in Harrington to discuss project topics and answer questions. Further information on each Project Center also appears on pp. 14 to 16 in the Operational Catalog.

### The Norton Company

Project opportunities exist for students in all disciplines except life sciences at Norton. Twenty students have completed their qualifying projects here in each of the last three years. Norton is the world's

largest manufacturer of abrasives, located only a few minutes from the campus. Projects can be arranged through Prof. Hagglund at Harrington.

### St. Vincent/U. Mass Med.

Biomedical projects including applications in MG, CS, PH and EE can be developed at either of these Project Centers. Typical areas of projects include cell biology, instrumentation development,

personnel training program design, and impedance plethysmography. Prof. Peura will be available to discuss the full range of topics, and further information can be obtained in Harrington.

### Digital Equipment Corp.

The Digital Equipment Corporation is a major producer of interactive computers for a wide range of applications. Past projects at DEC have represented the "state of the art" in equipment and software designs. Students in Electrical Engineering and

Computer Science will find a wide range of project opportunities available. Prof. Ray Scott is WPI's Project Center Director for the Digital Equipment Corporation, and more information will be available at the DEC table in Harrington.

### Natick Army R&D Center

The U. S. Army Natick Research and Development Command is located 25 miles east of Worcester. Food engineering, clothing design, biochemical engineering, and life support systems are the major areas of project work done at this Center.

Projects can be done in almost every discipline. This Center has operated cooperatively with WPI since 1973. Students interested in doing projects at Natick should talk with Prof. Ed Ma, or Prof. Bill Chen.

## Off campus projects

A special information table in Harrington Auditorium will be available for students interested in off-campus project opportunities. Some of the organizations that

have proposed project topics are listed below.

### Reed Rolled Thread

Reed Rolled Thread Die Co., a division of Litton Industries, has proposed several projects in the areas of management information systems for management control in equipment loading, order scheduling, and productivity control; and in automated milling equipment operation. Located

several miles north of the WPI campus, Reed has done several projects with WPI over the past several years, primarily in Computer Science and Mechanical Engineering. For more information about projects at Reed, visit the OFF-CAMPUS OPPORTUNITIES table at Harrington.

## SCHEDULE FOR WEDNESDAY

8:30 a.m. 9:45

### WHAT DOES WPI OFFER? (ALDEN)

Freshmen and new students meet with Dean W. R. Grogan to discuss Plan structure and philosophy and the broad range of campus opportunities.

10:00 a.m.

### CAREERS & PROGRAMS (DEPARTMENTS)

Freshmen, new students and interested upperclassmen: meetings with representatives of degree departments or with special program coordinators to discuss career opportunities, course offerings, disciplinary specialties, and integration of course and project work in constructing programs. Two sequential sessions are planned to allow undecided students to visit two disciplines. (10:00-11:00; 11:00-12:00--two presentations)

NOON

## LUNCHEON

1:30 p.m.

### HUMANITIES SUFFICIENCIES (SALISBURY)

The Humanities Sufficiency: the nature of the degree requirement, what is meant by thematic relationship, goals of the sufficiency, discussion with various area consultants.

3:00 p.m.

Faculty available in their offices

### The Foxboro Company

Foxboro serves such industries as chemicals, oil, gas, electric power, food, textiles, paper, and minerals and metals by providing instruments and systems for the management and control of their production processes. The Foxboro product line consists of more than 1000 different offerings, ranging from single instruments to complete integrated

computer control systems. MQP descriptions are available for the following majors: CS, PH, EE, ME, MA, CH. The professional staff at Foxboro have worked closely with WPI faculty members to do five worthwhile projects for WPI's students. Students are strongly encouraged to explore these project opportunities.

### Rogers Corp.

The Rogers Corporation is an international materials processing firm serving a variety of individual markets (from automotive to textile) with its corporate research and development facility located

in Rogers, Conn. Both IQP's and MQP's in material science, mechanical and chemical engineering, computer science and management are available. Rogers is fully committed to the WPI Projects Program.

### Riley Stoker Corp.

The Riley Stoker Corporation, located only a few minutes by car from campus, has proposed several excellent project opportunities. Riley is involved primarily

with the production of large industrial boilers and in general areas of energy producing power plants. MQP opportunities have been defined for majors in ME, MA, EE and CM.

I decided against resigning, however. If I had resigned the situation would only be worsened, because there is no one else willing to be sports editor.

### Coppus Engineering

MQP topics in mechanical engineering dealing with design aspects of steam turbine buckets have been proposed by

Coppus Engineering Corporation, located on Park Avenue in Worcester.



# Project information day

WEDNESDAY, FEBRUARY 22, 1978

9:45 a.m.

## MQP'S (DEPARTMENTS)

Sophomores and juniors meet with representatives of degree departments or with special program coordinators to discuss MQP's and departmental PQP's.

NOON

## IQP'S, PROJECT CENTERS (HARRINGTON)

Major presentation for all students of IQP opportunities, MQP and IQP project centers, individual off-campus project opportunities, exchange programs and interactive PQP's. Detailed information on WPI's Project Centers, and on specific off-campus project topics will be presented, as will specific topics in every IQP area of study. Faculty will be available to answer any questions students may have.

1:30 p.m.

## BREAK

2:45 p.m.

## IQP'S, PROJECT CENTERS (HARRINGTON)

Continuation of major information sessions in Harrington.

4:00 p.m.

offices for individual conferences.

## Registration calendar

Feb. 22: PROJECT INFORMATION DAY — Students given information on advisor interests, areas of study and off-campus opportunities.

Feb. 28: PROJECT PRE-REGISTRATION DEADLINE — Deadline for pre-registration; students must identify advisors, areas of

off-campus preference. (Specific Topic Not Necessary).

Apr. 19: PROJECT REGISTRATION DEADLINE — Students confirm project, independent study and sufficiency advisors, areas of study and identify Project Topics.

## Sufficiencies

The purpose of the sufficiency is to give students the opportunity to study one area of the humanities in considerable depth rather than to provide a shallow exposure to many different areas. The Humanities Department has developed procedures to help students develop their sufficiencies. These procedures include introductory "concepts" courses and faculty sufficiencies consultants. Humanities faculty

will be available between 1:30 and 2:45 p.m. to discuss various sufficiency possibilities, and answer questions and advise students in planning their Sufficiency sequences. A brief but important presentation on the Sufficiency will be made at 1:30 p.m. in Salisbury. The exact location of this presentation, and the room numbers of area consultants are posted at the Humanities Department office in Salisbury.

At Harrington 10:00 a.m.-noon/1:30-2:30

## Et ceteras

### London exchange

WPI students from the sophomore year to the first two terms of the senior year are eligible to participate in a formally established exchange program with The City University in London (TCU). The exchange will normally be for one-half year (two terms), during which time students will be preparing for their degree at the same rate as though they were on campus in Worcester. Both classroom study and project opportunities are available in London. This exchange provides students with an exceptional opportunity to broaden their academic and cultural backgrounds through study in a foreign country.

### Zurich exchange

An exchange program has been arranged between WPI and the Eidgenossische Technische Hochschule (ETH) in Zurich, Switzerland. ETH is a technical university of international reputation offering degree programs in agriculture, architecture, astronomy, botany, chemical engineering, chemistry, civil engineering, crystallography, electrical engineering, forestry, geography, geology, mathematics, mechanical engineering, meteorology, microbiology, petrography, and physics.

10:00 a.m. — noon/1:30-2:30

## At Harrington

# IQPS

To help students decide on an area of study and which faculty members might be potential advisors, the following list has been prepared showing the chief areas of IQP interest and the chairperson who coordinates project activity in each area. The coordinators can provide you with more information about the areas, and can assist you in finding an advisor. If you have questions or need assistance with your early exploration of interactive project opportunities, see the faculty who will be available for each IQP area, in Harrington Auditorium.

| IQP Code | Title and Coordinator   |
|----------|---|
| 01       | WPI COMMONWEALTH PROJECT CENTER (Prof. D. Chamberlayne)                                 |
| 02       | THE TIME MACHINE - LIVING MUSEUMS PROGRAM (Prof. D. Johnson)                            |
| 03       | CENTER FOR SCIENCE AND THE LAW IN PUBLIC POLICY ANALYSIS (Prof. L. Goodwin)             |
| 04       | REGIONAL EVOLUTION: PATTERNS OF TECHNOLOGY AND CULTURE (Prof. D. Chamberlayne)          |
| 05       | THE RAILROAD (Prof. P. Dunn)  |
| 06       | THE WASHINGTON PROJECT CENTER (Prof. J. Demetry)  |
| 21       | ENVIRONMENTAL AND RESOURCE ISSUES (Prof. K. Keshavan)                                   |
| 22       | ENERGY (Prof. D. Woods)   |
| 23       | LEGAL SYSTEMS, LAW ENFORCEMENT, AND CRIMINAL JUSTICE (Prof. J. Manfra)                  |
| 24       | URBAN, REGIONAL, AND STATE DEVELOPMENT (Prof. J. Demetry)                               |
| 25       | TRANSPORTATION POLICIES AND ALTERNATIVES (Prof. R. Desrosiers)                          |
| 26       | ETHICS AND VALUES IN TECHNOLOGY (Prof. T. Shannon)                                      |
| 27       | HAZARDS ANALYSIS (Prof. R. Bourgault)   |
| 28       | THE INTERACTION OF SCIENCE, TECHNOLOGY, AND CULTURE (Prof. M. Parkinson)                |
| 29       | UNEMPLOYMENT, POVERTY AND INFLATION AND TECHNOLOGICAL DEVELOPMENT (Prof. T. Roddenbery) |
| 30       | PROBLEMS OF DEVELOPING NATIONS (Prof. L. Graubard)                                      |
| 31       | DELIVERY OF SOCIAL SERVICES (Prof. J. O'Connor)   |
| 32       | EDUCATION IN A TECHNICAL SOCIETY (Prof. L. Berka)                                       |

## Library resources

Information will be made available to all students on how the resources of WPI's Gordon Library can best be used in project work. Lists of reference works including books, periodicals and journals, and technical reports will be available at Harrington for each of the IQP areas-of-study.

Participants in the program alternate their academic schedule with two extended periods of paid employment related to their academic field. Students normally enter the program after the sophomore year. The total degree program is expanded to five years with up to 18 months in the employment periods.

## W.R.C.

Along with a strong emphasis on project work at WPI has come a strong emphasis on high quality presentation of materials such as proposals, written reports, term papers, and abstracts describing the project work. To assist students in developing and refining their writing skills, WPI has established a Writing Resources Center which is located in the Projects Center. Style guides, writing manuals, and specially prepared handouts concerned with report writing are available. Small group or individual conferences scheduled by appointment with the writing consultants constitute an additional service.



# Students hard hit

by David Weiss

Many of the classes at the beginning of C term have been empty not only because of the usual punting, but also because of a great number of illnesses. However, the illness is not officially an epidemic and this week it started to subside. The Russian flu has not yet reached Massachusetts but this series of colds has.

An above average number of students visited the WPI infirmary last week. Most had violently red sore throats. Ninety percent of these students also had fevers.

The only prescribed remedy was aspirin, fluids, and plenty of rest. Although no one was sent to the hospital, some were in the infirmary overnight, and a few stayed 24 to 48 hours.

The nurses were not sure if last week's illnesses were a flu but if a flu does strike, they feel confident they can handle the situation. Extra nurses may have to be called in to handle an epidemic if one arose, but they have been able to handle past epidemics.

# On Projects: Imagination needed

by Don Calawa

While talking out ideas for future articles in this column up in the IQP center, I was interrupted in the conversation with Dennis Lipka by a student asking where the "sheet of projects" could be found. Patiently explaining that no such mythical list existed, Dennis began explaining the IQP projects relied greatly on a student-initiated effort to select an appealing project idea, and then hunt up the necessary advisors and support personnel for the success of that project.

The student departed with a puzzled look on his face, hoping for something a bit more concrete to turn up at Project Planning Day. On a hunch, I asked Dennis how often this was happening, and found a sizeable amount of freshmen and sophomores seem ingrained with the same fallacy on how projects are done. People look at the Plan, say "Oh, that's nice!", and promptly wander off expecting to be led through a litte, grassy, "project path" through the garden of Higher Education leading to their diplomas. Well, for those who don't know (from someone whose eyes are just being opened), let me tell you:

it's a jungle out there! If you left your machete and defoliant spray canisters back at the clearing in Term A, you'd better go back and get them.

Faculty advisors have found lately (much to their fears) that student initiative on projects is starting to be passed by, with the faculty being held more and more responsible for generating project ideas. While this can lead to some very fine proposals, certain people are seeing a trend that might begin to inhibit undergrads here from doing "unapproved" projects. "Approved" projects are any student or faculty-proposed ideas for which an advisor can be found.

Granted, there are some ground rules to be followed. (Even a jungle explorer goes into the brush only with a map and compass.) But even here the rules are few and well laid out in the area of the IQP — listed on pg. 20 of the new Operational Catalog. In the next few weeks, I hope to illuminate some of the eternal gloom surrounding that most mystic of IQP regions: the project codes. The first one or more of these revelations can be seen in this column next week. Be there....Aloha!

# Tryouts to be held

Tryouts for the humanities spring production, *The Beautiful People*, will be held Thursday, February 23rd, between the hours of 7 and 10 p.m. For further information contact Caroline Dodge, ext. 513. All are welcome including students, staff, faculty, and all other interested parties. The play's cast requires seven men, two women, and a coronet player.

William Saroyan's *The Beautiful People* is the bittersweet, warmly funny story of a family growing up. In it, change is

inevitable and this is neither good nor bad, but something is always lost when change occurs. The playwright is one of America's few true optimists and this production should be a refreshing change of pace. Production dates will be April 13, 14, and 15.

Competency Exam Results for January, 1978

| Department             | AD    | AC    | NR    | Total | Repeats | Passed |
|------------------------|-------|-------|-------|-------|---------|--------|
| Chemical Engineering   | 3     | 11    | 18    | 32    | 3       | 2      |
| Chemistry              | 2     | 2     | 1     | 5     | 1       | 0      |
| Civil Engineering      | 9     | 37    | 5     | 51    | 1       | 1      |
| Computer Science       | 7     | 9     | 4     | 20    | 0       | 0      |
| Electrical Engineering | 22    | 21    | 12    | 55    | 4       | 3      |
| Humanities             | 0     | 0     | 0     | 0     | 0       | 0      |
| Interdisciplinary      | 2     | 3     | 1     | 6     | 1       | 0      |
| Life Sciences          | 5     | 3     | 1     | 9     | 1       | 1      |
| Management             | 1     | 9     | 5     | 15    | 1       | 1      |
| Mathematics            | 1     | 2     | 2     | 5     | 1       | 1      |
| Mechanical Engineering | 10    | 38    | 20    | 68    | 9       | 7      |
| Physics                | 1     | 6     | 0     | 7     | 1       | 1      |
|                        | 63    | 141   | 89    | 273   | 23      | 17     |
|                        | (23%) | (52%) | (25%) |       |         | (74%)  |
|                        |       |       |       | (75%) |         | (75%)  |

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### ENGINEERING GRADUATES

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## ON-CAMPUS INTERVIEWS

Worcester Polytechnic Institute  
Tuesday, Feb. 28, 1978

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## Upperclass Financial Aid Applications NOW AVAILABLE

The applications for financial aid at WPI for the 1978-1979 academic year are now available at the Financial Aid Office located in Higgins House. Any upperclassmen interested in applying for financial aid, who have not during the past two weeks received the Financial Aid Application already, are advised to stop by the Financial Aid Office IMMEDIATELY to pick up these forms. Financial aid includes all forms of WPI Scholarships, National Direct Student Loans, Institute Student Loans, Basic Educational Opportunity Grants and the Supplemental Educational Opportunity Grants.

## Can You Match This?

As you read this, a programming team from WPI is competing in the ACM-UPE National Computer Programming Contest, in Detroit, MI. 24 schools are represented. Travel and accommodations will cost about \$400. We have already received \$100 in personal faculty contributions. We need your assistance to meet the cost. Donations may be brought to the Computer Sciences office or to WACCC.

We appreciate your support.



# Entertainment: Winter weekend

Yes folks, winter weekend is back by popular demand. This affair is jointly produced and sponsored by the Social Committee and the I.F.C. Friday, March 3rd, WPI concerts hosts Sanford and Townsend, of *Smoke From a Distant Fire* acclaim, preceded by Zonkaraz, Worcester's own infamous party band. The show starts at 8 p.m. in Harrington and is general admission only. Ticket prices for Tech students are as follows: \$3 in advance and \$4 at the door. Saturday, March 4th, brings us the I.F.C. sponsored nightclub with comedy by The Graduates and dancing along the lines of the top forty by Sapphire. Tickets are \$2.50 for I.F.C. members and \$3.00 for non-I.F.C. Techies. When tickets go on sale for the first two days, the I.F.C. has one side of Harrington reserved. However, I.F.C. members may buy tables in any section. After the second day, which for the record should be Tuesday, the entire floor of one hundred tables will be open to everyone. First come, first serve.

Who the hell are these performers one might query. Well, that's a good question. Of the lesser known bands, Zonkaraz and Sapphire, little information is available. From heresay, I've gathered that Zonkaraz has quite the following in the Worcester area. As for the biggies...Ed Sanford and John Townsend are nearly newcomers and certainly late-bloomers on the L. A. music scene. Their debut album on Warner Bros., *Smoke From a Distant Fire*, has received much attention nationwide since its release

a year ago. But slightly so with such strong members as "Oriental Gate," "Squire James," "In For The Night," not to mention the title cut. These tunes pushed them to the top in recent American Song Festivals too. Take note that the dominating influence on their musical talents was R & B via the likes of Wilson Pickett, Allen Toussaint, Ben E. King, and Bobby "Blues" Bland. Just last month the two released their second album, *Duo Glide*. Such untemper members as "Paradise," "The Eye of My Storm", and "Livin's Easy" should be enough to convince anyone that these two have developed a sound and style uniquely their own, reminiscent of really no one — rich, warm, full of variety. From experience, this record is well worth listening to. The Graduates hail from Chicago's Second City, a satirical troupe. This comedy trio presents more than a stand-up comedy act, but less than a full theatrical performance. Hmmm, sounds interesting....They, meaning Jim Staal, Jim Fisher, and Tino Insana (as in insane), do nightclubs, college concerts, wacked out TV commercials, and television appearances, and are presently working on an album (isn't everyone though?). Their special satiric and improvisational approach to entertainment is racy, may be offensive to some of the more straightlaced students at this school, but should prove hilarious. This is one of the few big social events at WPI and is well worth attending especially at such near freebie prices.

# Theatre company

A decade ago, the Broadway stage gave contemporary theatre one of its most winning and heart-warming romantic comedies with Leonard Gershe's "Butterflies Are Free." Worcester Foothills Theatre will present this Broadway hit at its Chatham Street theatre from February 22nd through March 12 under the direction of Rose Dresser.

The four character play will feature Rea Rosno and Robert Kelly as Jill Tanner and Don Baker, actress and song-writer in New York City; Ms. Rosno and Mr. Kelly were last seen together on the Foothills Stage as the young couple in "Outward Bound." Stephen Ivester, who has been in each production at Foothills from "Outward Bound" through "An Irish Faustus" will also be seen in "Butterflies..."; and newcomer, Ruth Miller will be seen as the mother, Mrs. Baker.

Ms. Miller has performed in several dinner theatres all over Florida. She has also appeared in numerous productions with the Players Rep. Theatre in Miami, and was seen with the Second City Company in Chicago, and in stock companies in Ohio,

New Hampshire, and Copenhagen, Denmark.

Performance times for "Butterflies Are Free" are: 8 p.m., Wednesday, Thursday, Friday and Sunday; 2 p.m. on Thursday and Sunday; and 5 p.m. and 9 p.m. on Saturday. Ticket prices: \$3.90, general admission, \$2.90 student and senior citizen, for all performances except Friday, 8 and Saturday, 9. For those two performances, all seats are \$4.50. Reservations are urged. For information, call 754-4018.

## CLASS RING DAY WPI Bookstore

Thursday, February 23rd  
10 a.m.-4 p.m.  
\$20.00 Deposit Required

Reminder: Rings ordered in October and December are being held for pick-up.

# Pub diversifies

The Goat's Head Pub is now more than ten years old. It is, however, in a period of growth and change. The corporation has voted to dissolve, a totally new advisory board has been elected, a new back entrance is being installed. Of course, there's the new manager, Glenn DeLuca, who arrived in the fall, with the freshmen.

He spoke of changes, then. The new door, air conditioning, bathrooms. The door is going in, but the rest await a quieter time. "The day-to-day (operations) are hectic here," said DeLuca. The bar in the big room has been moved, but that's not a major change. He adds now that he would like to add permanent lighting tracks, to light the groups that appear in the pub.

DeLuca would also like to work with the social committee to vary the type of group more. He sees "no reason to spoon feed hard rock." DeLuca also has thought about getting a disc jockey for Dance night "to take requests, let him play the discs. The tapes we have leave much to be desired."

Music is not the only form of entertainment that he has considered: DeLuca has several chess and backgammon boards, and a dart board on order. He plans to lacquer the chess and backgammon boards, to increase their life span. The games are primarily for the afternoons, although they will be available for slow evenings.

## READERS NEEDED!

Readers needed immediately to assist blind student in researching for sufficiency this term. Pays \$2.10-hour.

Please contact

Chris or Don, Box 1839, 757-1046.

## CREDIT UNION AT WPI?

There will be an IMPORTANT Meeting to decide whether or not WPI will get a CREDIT UNION. All faculty, staff, and students are urged to attend.

DATE: Tuesday, Feb. 21, 1978

TIME: 4:00 p.m.

PLACE: Kinnicutt Hall — Salisbury Labs

Any questions — Contact: Andy Davidson

Box 587

Tel. No. 799-7591

Mass Public Interest Research Group will hold a general meeting for all students on Thursday, February 23, at 4 p.m. at the P.I.R.G. office, third floor Washburn. Projects to be discussed include:

- Scheduling a debate on the merits of nuclear power;
- planning an alternative energy Fair;
- lobbying for passage of the Mass. Bottle Bill;
- nutrition education;
- publi

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## WPI WINTER WEEKEND

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CONCERT FEATURING SANFORD AND TOWNSEND  
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\$3.00 FOR NON-MEMBERS







# SPORTS

## Roundballers make it 4 in a row

by Barry Aronson

How many more surprises can the WPI Engineers come up with? After upsetting the undefeated Coast Guard team and beating Trinity in over-time the Engineers did not leave Harrington Auditorium last Saturday night until they had beating the Division II University of Lowell Chieftains in double over-time by a score of 87-83.

"This win has to rank as big as our win over Coast Guard," said WPI coach Ken Kaufman. This is WPI's fourth consecutive win and puts their record at 6-9 with four games remaining.

WPI looked relaxed as the first half got underway and jumped to an early lead. The only Chieftain that was having any success making field goals was Stan Whetstone, who had 36 points and 22 rebounds for the game. Later in the half Lowell did manage to generate some offense and tied the score. WPI fought back and half ended with WPI 11 points in the lead.

The second half was a real thriller for the 1000 fans that attended the game. Lowell looked like a completely different team; they shot 48 percent from the floor, as opposed to a dismal 29 percent for the first half. As the clock marched to :00 WPI found themselves trailing the Chieftains. Kevin Doherty, WPI's junior guard who had 18 pts. for the game went up for a shot, missed, and came up with the ball after a mad scramble. He passed off to Mark Nestor, who was all alone and put the ball up to tie the score 66 all with two seconds remaining in the game.

The Chieftains had a four point lead with 1:30 left in the first overtime. A basket by Mark Nestor, who finished the night with 8 points and 10 rebounds, and a jumper by Wayne Barry with 50 seconds left in the game tied everything up, 74 all, forcing a second overtime.



—Mark B. Hecker

WPI's John Broderson (50) grabs rebound over fallen Lowell player.

As the clock crept through the second over-time period, the long game began to take its toll on the Chieftains, who were playing their third game in five days and missing Chris Prince, second leading scorer. WPI took the lead for good with five free throws by freshman John Sices and another by Wayne Barry. WPI killed the clock for the last 40 seconds, including some fancy, throw-the-legs ball handling by Wayne Barry.

"I think that winning the last three games helped us a lot," said Coach Kaufman. "The kids just didn't give up."

## Women lose second game of season

by J. Gordon Gregory

The WPI Women's Basketball team came off the snow week and last week lost their second game of the season. The snowstorm affected practice and forces postponement of three games: Bryant, Clark, and Lowell. In addition to the scheduling problems, the team also was affected by the bug and by Monday last week, many members of the team were sick.

Luckily, the game on Monday wasn't a tough one, as the girls from Becker Jr. College were hosted by WPI in Harrington. Even with their 6-0 center, Becker isn't much of a threat, so the news that she wasn't going to play didn't excite WPI much. In addition, although no amount of spectator support could have won the game for Becker, there were actually more Becker fans than WPI fans. The game started off rather sloppy, WPI being very careless in the first few minutes. Nevertheless, WPI moved easily into a 24-8 lead after 10 minutes. The game was smooth and rather boring from then on with WPI commanding a 35-21 lead at the half.

The margin kept increasing throughout the second half, and the final score of 76-29 accurately tells the story as WPI bettered its record to 7-1. Top scorer for WPI was Sophomore Janet Hammerstrom with 22 points, with Mary Donovan and Nancy Convard next down, with 16 and 14, points respectively. A very relaxed win for WPI.

On Wednesday, Feb. 15, the girls travelled to Brandeis University to face the Brandeis women in what would prove to be a much different story than the Becker game. After a few minutes, it was clear that WPI would have a much tougher time than on Monday. With some plain good plays and some incredible shooting Brandeis held a three-point lead at the half. The long break for halftime didn't help the Tech women at all as Brandeis continued to pull away, gaining a 12-point advantage after some more incredible shots. With WPI suddenly showing its comeback strength, especially on some excellent inside passes by Pat Keough to Leslie Knepp, the game was turned around and tied with three minutes left. Mary Donovan then had a hot streak of swishes for WPI and the stage was set for another WPI clutch win. Brandeis was suddenly playing catch up

ball after leading for the entire game. WPI managed to hold on the lead while time ticked away, and at the end it was 60-57, WPI. Senior Mary Donovan scored top points with 14, while Sophomore Leslie Knepp had 12 and Peg Peterson and Pat Keough both had 10.

The next night, Thursday, WPI played Clark in a game that was rescheduled because of the storm. Clark is the State Women's Basketball Champion (Div. III), and a win by WPI could mean a win at the State Tournament when and if these two teams meet again. The WPI team showed more desire to win this Thursday than they have yet this year. Since Clark is without one of its star players, now would be the time to beat them.

Clark is a pressing team, and immediately they started the full-court press. WPI handled the press well, and soon were winning 8-0. Clark was still an excellent team and they didn't let WPI gain too great an advantage at any time. About seven minutes into the half, disaster struck as WPI's Junior forward Pat Keough twisted her already taped ankle. Pat is one of the WPI women who makes things work inside, so this loss could mean trouble, but the score was 12-3 and her loss wasn't immediately noticed as WPI ended the half with a 26-17 lead.

Clark came out in the second half showing why they were the State Champs. The game turned around quickly and tied at 34. WPI's offense fell apart for some minutes and Clark was out ahead by 4 or 6 points most of the time. A brief comeback effort failed and WPI lost their second game of the season by a score of 50-58. Clark did to WPI what WPI has been doing to its opponents, and now Tech knows how it feels.

The taste of a loss was not a pleasant one and it is sure that WPI won't be easily defeated before the State Tournament during March 2-4. A couple of tough teams remain but WPI's 8-2 record should only change in the win column. A game Saturday against Assumption and a game against Lowell (home 2 p.m. Sat., Feb. 25) are the only tough games remaining. The outlook for the State Tournament in March is excellent. WPI has proven that it can beat last years champs, and pending injuries or sickness, WPI really does have a chance at the State Title this year.

## Snow storm hurts hockey team

The hockey team came off the two week snow layoff to play the excellent team from University of Rhode Island. The team played its heart out but lost, 6-4. The game was a great game to watch as the action was fast and each team had an abundance of scoring chances.

U.R.I. came out early, scoring on their first shot. But WPI came back and put pressure on U.R.I. which payed off as Chuck Crowley scored his third goal of the season on an assist from Bill Keville. The action never stopped as both goalies were called upon to stop several excellent scoring bids.

The second period started off with U.R.I. again getting the early score. WPI came right back as John Wilbur scored on Jim Morin's rebound. U.R.I. came back three seconds later to make the score 3-2. Both teams had their bids to score all period. It was WPI who finally broke through with David Freni scoring his fifth goal of the

season from Ray Cronin and Greg O'Halloran. WPI then went into a defensive lap and U.R.I. pulled ahead for good by scoring the next two goals. Tech pulled to within one with five seconds remaining, a 60-foot slap shot by Paul Fernsides that U.R.I. is still looking for.

The third period started out true to form with U.R.I. getting the quick goal. WPI had all the pressure in the final period but just could not crack the U.R.I. defense.

Dick Forand started his first game in goal this year in stopping 29 shots. He looked rusty early in the game but came on strong to show his potential. Tech played just about their best game of the year even though many of the players were sick. Mention must be made of Phil Searrell and Lenny Taylor, both were sick in bed the day before but both took their regular shift. The next home games are Wednesday and next Monday against Assumption and Rhode Island College.

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# Intramural Basketball Results

## Scores

|          |    |  |
|----------|----|--|
| KAP (B)  | 38 | Robinson (14), Horgan (9)                                  |
| SIG PI   | 34 | Gagnon (10), Mather (10), Falcinelli (8)                   |
| FIJI (A) | 57 | Neece (20), Marino (12)                                    |
| PSK (B)  | 24 | Landers (10)   |
| KAP (A)  | 74 | Miles (14), Dimuzio (12), Halleck (12), Busch (12)         |
| 89'ERS   | 16 |  |
| SAE (A)  | 31 | Masse (8), Kurdziel (7), Kelly (7)                         |
| ATO (B)  | 30 | Doherty (10)   |
| LCA (A)  | 64 | McClane (14), Durbak (10)                                  |
| ATO (C)  | 18 |  |
| SIG PI   | 52 | Zeiz (15), Mather (15)                                     |
| TKE      | 29 | Miller (17)  |
| ATO (A)  | 54 | Hindle (16), Payne (12), Clang (10)                        |
| QTV      | 24 | Labrecque (11)   |
| OTHG     | 37 | McCarthy (13), Seaman (8), Sacco (8)                       |
| STD-C    | 15 |  |
| PATROL   | 23 | Arryandes (8)  |
| PSK (A)  | 21 |  |
| CELTS    | 29 | Graham (12)  |
| ZP       | 16 | Madigan (10)   |
| TROOP    | 68 | Jacobson (14), Traver (14), Biederman (12), Kuczenski (12) |
| LCA (B)  | 14 |  |

|          |    |   |
|----------|----|---|
| KAP (B)  | 38 | O'Horo (10)                                   |
| KMOA     | 16 |   |
| BEER     | 41 | Pelissier (13), Trudel (12)                   |
| PSK (B)  | 18 |   |
| 89'ERS   | 15 | O'Malley (10)                                 |
| SPE (C)  | 12 |   |
| ATO (B)  | 26 | Clarkin (10)                                  |
| SPE (B)  | 24 | Wilder (10)                                   |
| KAP (D)  | 43 | Brown (11)                                    |
| ATO (C)  | 25 |   |
| ATO (A)  | 61 | Clang (16), Rodriguez (14), Hindle (12)       |
| PMO      | 23 | Spector (12)                                  |
| OTHG     | 43 | Noralka (11), McCarthy (8)                    |
| ZP       | 14 |   |
| PSK (A)  | 46 | Doornweerd (17), Monroe (11), Cetto (10)      |
| LCA (B)  | 19 |   |
| KAP (B)  | 35 | O'Horo (19), Horgan (12)                      |
| TROW     | 24 |   |
| IYF      | 84 | Fitzgerald (27), Superson (18), O'Connor (14) |
| GAM (A)  | 38 | Wilson (16)                                   |
| SPE (A)  | 53 | Walker (16), Gifford (11)                     |
| QTV      | 11 |   |
| FIJI (A) | 39 | Neece (8), Marino (7)                         |
| STD (C)  | 18 |   |

## INTRAMURAL BASKETBALL STANDINGS

DIV. I - ATO (A) 6-0, ROTC 4-0, SPE (A) 3-0, PMO 2-2, LCA (C) 2-3, TC 1-3, KRAP 1-3, SAE (C) 0-3, QTV 0-5.  
 DIV. II - OTHG 6-0, CELTS 5-0, FIJI (A) 4-0, BEER 3-2, ZP 2-3, STD (C) 2-3, KAP (C) 0-4, PSK (B) 0-5, LCA (D) 0-5.  
 DIV. III - TROOP 5-0, KAP (A) 4-0, PSK (A) 5-1, PATROL 3-2, LCA (B) 2-3, SAE (B) 1-3, SPE (C) 1-4, 89'ERS 1-4, DAN (2) 0-5.  
 DIV. IV - SAE (A) 5-0, KAP (B) 5-1, DAKA 3-1, ATO (B) 3-2, TROW 3-2, SIG PI 2-2, KMOA 2-3, SPE (B) 1-4, MDC 0-4, TKE 0-5.  
 DIV. V - IYF 5-0, SMOKE 4-0, LCA (A) 4-0, KAP (D) 2-2, GAM (A) 1-1, FULLER 7 1-2, AC 0-4, ATD (C) 0-4, TBLG 0-4.

|         |     |                          |
|---------|-----|--------------------------|
| KAP (A) | 50  | Griffin (21), Miles (9)  |
| PATROL  | 23  | Dombrowski (31)          |
| SAE (A) | 30  | Demarco (8), Masse (7)   |
| DAKA    | 23  | Maki (11)                |
| LCA (A) | 55  | Durbak (20), Rowden (14) |
| FULLER  | 25  | Sullivan (12)            |
| LCA (C) | 27  | Kujawski (13)            |
| KRAP    | 12  |                          |
| BEER    | 35  | Moralli (8)              |
| LCA (D) | 23  |                          |
| SPE (C) | WBF |                          |
| DB      | LBF |                          |

## Team offense

| Team        | Games Played | Pts. Scored | Avg. |
|-------------|--------------|-------------|------|
| 1. IYF      | 5            | 431         | 86.2 |
| 2. ROTC     | 4            | 245         | 61.3 |
| 3. KAP (A)  | 4            | 243         | 60.8 |
| 4. LCA (A)  | 4            | 240         | 60.0 |
| 5. TROOP    | 5            | 286         | 57.2 |
| 6. SPE (A)  | 3            | 167         | 55.7 |
| 7. SMOKE    | 4            | 214         | 53.5 |
| 8. ATO (A)  | 6            | 317         | 52.8 |
| 9. FIJI (A) | 4            | 204         | 51.0 |
| 10. SAE (A) | 5            | 250         | 50.0 |

## Team defense

| Team         | Games Played | Pts. Allowed | Avg. |
|--------------|--------------|--------------|------|
| 1. OTHG      | 5            | 85           | 14.2 |
| 2. ATO (A)   | 6            | 88           | 14.7 |
| 3. SPE (A)   | 3            | 44           | 14.7 |
| 4. KAP (A)   | 4            | 61           | 15.3 |
| 5. PSK (A)   | 5            | 79           | 15.8 |
| 6. CELTS     | 5            | 84           | 16.8 |
| 7. ROTC      | 4            | 67           | 16.8 |
| 8. TROOP     | 5            | 106          | 21.2 |
| 9. LCA (A)   | 4            | 88           | 22.0 |
| 10. FIJI (A) | 4            | 89           | 22.3 |
| 11. IYF      | 5            | 112          | 22.4 |
| 12. SAE (A)  | 5            | 112          | 22.4 |
| 13. ATO (B)  | 5            | 134          | 26.8 |



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# What's Happening?

## Tuesday, February 21

Bloodmobile Visit, Alden Hall, 9 a.m.-4 p.m.

WPI Business Women's Club mixer, Higgins House, noon

Women's Basketball vs Curry, away, 2 p.m.

Chemical Engineering Coloquim, "Interactive Computer-Aided Design",  
Dr. Brice Caenahan, U. Michigan, Goddard 217-227, 4:15 p.m. (coffee at 4)

Swimming vs Nichols, home, 7 p.m.

Pub Entertainment, "Boaz", 9 p.m.

## Wednesday, February 22

Project Planning Day

Hockey vs Assumption, home, 7:45 p.m.

Dance Nite in the Pub, 8 p.m.

## Thursday, February 23

Bloodmobile Visit, Alden Hall, 9 a.m.-4 p.m.

JV Basketball vs MIT, away, 6:15 p.m.

Coffeehouse, "Barry Drake", Wedge, 9 p.m.

Wresling, New England Intercollegiate Championships at  
Coast Guard Academy, (through 2/25)

## Friday, February 24

Skiing at Middlebury (Div. I Championships, through 2/25)

## Saturday, February 25

Fencing vs Trinity, away, 1 p.m.

JV Basketball vs Clark, away, 6 p.m.

Basketball vs Clark, away, 8 p.m.

Pub Entertainment (to be announced), 9 p.m.

## Monday, February 27

Hockey vs R.I. College, home, 7:45 p.m.

## Tuesday, February 28

Women's Basketball vs Babson, home, 7 p.m.



—Mark B. Hecker

# WPI Newspeak

Volume 6, Number 4

Tuesday, February 21, 1978